

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

3 NOVEMBER 1977

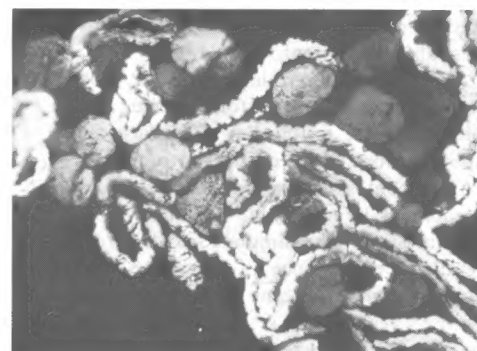
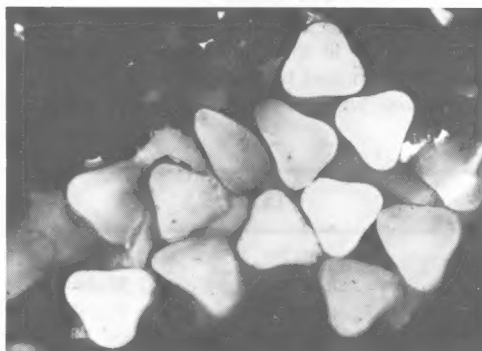
## THE TEXTILE ANALYSIS SERVICE

The Textile Analysis Service is a testing laboratory for the analysis of textile performance problems. The laboratory is located in 315B Printing Services Building, and upon initial inspection, it appears to be an elaborate stage set for the production of commercials that demonstrates which soap makes laundry brighter. In fact, with some important qualifications, the Analysis Service does function in a way that is reminiscent of soap commercials. However, at the laboratory it is the textile and not the soap that is tested, and brand X is never guaranteed success or failure.

The Service analyzes performance problems of garments and household textiles such as carpets, draperies, and upholstery. They offer information on the selection, use, and care of textiles, and they sponsor annual seminars for drycleaners. They also provide textile testing as set out by the Canadian Government Specifications Board, the American Society for Testing and Materials, and the American Association of Textile Chemists and Colorists. Aside from the Canadian Textile Testing Laboratory in Ontario, the Textile Analysis Service is the only laboratory in Canada that can offer an equivalent range of textile analysis.

The proliferation of new synthetic fibres and the continual re-combination of existing fibres in new textile constructions has gone beyond the comprehension of the average consumer; in many cases, professionals such as drycleaners, retailers, and manufacturers are unsure of the performance capabilities of new textiles. The problems are varied, but they have one factor in common: either the textile has not performed according to specifications or it has not performed to expectation.

While professional agencies make the most extended use of the Service, inquiries from private consumers amount to a significant percentage of the laboratory's activities. Very often the abilities required of the textile technologist, Rose Lynn Petty, are faintly Holmesian in their nature. For example, the laboratory has dealt with problems that have been traced back to the fact that the laundry where a garment was cleaned was in close proximity to a poorly-vented drycleaning operation. Fumes from solvents used in drycleaning when in contact with hot metal



*At the Textile Analysis Service a microscope is probably the most useful tool in identifying problems in textile performance. The fibres in the above picture are antron (left) and flat filament rayon (right).*

or a gas flame can produce residues that effect many textiles negatively. Stains on the lining of a fur coat might at first appear to be the fault of the company which stored the fur, but upon closer examination it may be discovered that the stains are the result of the hide becoming acidic due to a

poor tanning procedure.

More prosaic problems are dealt with as well. A label giving instructions on the proper care of a garment might be made of a material which melts upon contact with a hot iron, or drycleaning solvent can remain in the shafts of the feather content of a

down-filled coat making the removal of residual soils difficult. In most cases the Service can identify the problem and assign responsibility for the failure of the textile to perform properly.

Problems can usually be attributed to the consumer, the manufacturer, or the cleaners. Professional cleaning and maintenance agencies make a substantial use of the Service, because claims made against them by a client are often due to other factors. Improper labelling by the manufacturer often results in the textile being subjected to a process for which it was not designed. Similarly, the consumer does not always treat the textile in the prescribed manner.

One of the main difficulties associated with textiles is that the consumer is almost always solely concerned with visual and tactile criteria, and the manufacturers are, of course, aware of consumer's criteria. However, even where durability is a factor the level of misinformation is high. For most people nylon is the last word in durability, but such is not necessarily the case. While nylon fibres are very strong, the durability of a textile also depends upon its construction. A weaker fibre in the appropriate textile construction will serve better than a strong fibre in a weak construction. The use of the textile must also be considered. If the textile is to receive a great deal of direct sunlight, then color fastness is important, or if it will be cleaned a great deal, then another kind of durability is needed. To simply assume that nylon is a durable fibre and use it any situation is obviously mistaken. What is desirable for a carpet is not necessarily desirable for a tent.

As well as identifying particular problems, the laboratory also performs fibre identification, testing for manufacturer's specifications, and testing for required government specifications. A wide range of equipment is employed. Various washing conditions can be simulated to test for a textile's performance in regard to washing stresses, and by means of a carbon arc, a textile's reaction to set periods of light may be measured. There are chambers for flammability tests and, of course, a washer and dryer. There are a wide variety of other procedures, but the most useful instrument is still the microscope. Stress and wear on the

fibre or construction of a textile is always most easily identifiable when magnified.

Since its establishment in 1970, the activities of the Textile Analysis Service have steadily increased. In the continually widening range of new fibres and textile construction there is a potential for great efficiency in textile use. Keeping pace with the new technology and its proper use is the Service's aim, and it is simple for anyone to take advantage of their information. Users of the Textile Analysis Service must fill out a data form from the laboratory which contains the relevant information about the textile. The textile and the form must then be mailed or taken directly to the Textile Analysis Service, 315B Printing Services Building, University of Alberta, Edmonton, T6G 2N1. The Service may also be reached by telephoning 432-3832. The fee for fibre identification (qualitative only) is \$3. The fee for problem analysis is \$5 for consumers, \$6 for Alberta cleaners, retailers, and other agencies, and \$8 for out-of-province agencies. Research and special projects are assessed a fee by consultation.

## ATHABASCA EXHIBITION EXTENDED

*Athabasca: Exhibitions from the University of Alberta Collections*, originally intended to close 4 November, has been extended to 20 November. The exhibition has been extended because of its popularity, and with the exception of "Art and Artifacts of Native Peoples," in the Students' Union Art Gallery, the exhibition will remain the same. "Contemporary Works" and "W.J. Phillips" will continue at the University Art Gallery and Museum, and the exhibition of University collections will remain at Athabasca Hall.

## VISITORS

- Annie Grant, RGN, SCM, MTD, Education Officer for the Central Midwives Board for Scotland, is visiting the Faculty of Nursing as an external evaluator for the Advanced Practical Obstetrics Program, for the two-week period 24 October to 3 November 1977.
- Aline Suschka, a World Health Organization Fellow from Poland, was a recent visitor to the Department of Soil Science. Dr. Suschka is studying sludge and solid waste disposal.
- Indra Deva, Professor and Head of the Department of Sociology and Dean of the Faculty of Social Sciences of Ravishankar University, Raipur, India, will visit the University until 6 November. Professor Deva

is currently conducting a lecture tour of several Canadian universities under the sponsorship of the Shastri Indo-Canadian Institute, whose head office is based at McGill University. While on campus Professor Deva will deliver two lectures: on 3 November in the Department of Sociology at 3 p.m. and on 4 November in the Department of Family Studies.

## PEOPLE

- Richard Morgan and Verner Paetkau, members of the Department of Biochemistry, dined with Queen Elizabeth and Prince Phillip during the Royal Visit to Ottawa. They were among a group of young scientists honored by being selected to represent their colleagues.
- Marion Charlotte Ferguson, Lecturer, Welsh National School of Medicine, visited the Faculty of Nursing from 17 to 21 October. She will be visiting Canada for a one-month period on a Pan-American Health Organization Fellowship to study the role of the extended nurse at the primary-care level.
- Jurgen H. Kammenhuber, Professor of Civil Engineering at the Aachen University of Technology, West Germany, is Visiting Professor in the Department of Civil Engineering for three months. He is working in the field of frame stability in Structural Engineering.

## NOTICES

*Because of the closure of University offices on 11 November, notices must reach the Editor by 9 a.m. on 9 November for publication the following week.*

### Early Folio Deadline

Because of the closure of University offices on 11 November, all deadlines for the submission of information to be published in the 17 November edition of *Folio* will be advanced one day.

### University Travel Regulations

The following information has been received from the Board of Governors and is effective on 1 November 1977.

When a private automobile is used for the purpose of travelling to Calgary, Banff or Jasper, mileage may be claimed at the following rates:

17 cents per mile—Claimant only.

20 cents per mile—Claimant and one or more passengers also travelling on University business.

When a private automobile is used for convenience in preference to public

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## BOARD OF GOVERNORS

E.A. Geddes, Chairman



In 1975, Eric A. Geddes succeeded Fred T. Jenner to become the seventh Chairman of the University's Board of Governors. Mr. Geddes graduated from this University in 1947 with a Bachelor of Commerce degree; he later lectured in the Faculty of Business Administration and Commerce for a year and served for two years as a member of the Board of Examiners of the Canadian Institute of Chartered Accountants. Today he is a partner in the management consultant firm of Price, Waterhouse, and Associates.

Because, under the Universities Act, the Board is the body ultimately accountable for all facets of University governance, membership on the Board is a heavy and time-consuming responsibility. Mr. Geddes took on the task, first as a member and then

as Chairman of the Board, initially out of a sense of social responsibility, inspired, as he says, by the commitment of such individuals as Fred Jenner. Why the University?

"Because," he said, "the University is very important to me personally, and because I know what a university means to society in general."

Once he became involved with the University, he quickly developed an "enormous respect" for University people. "University people are easy to work with. The quality of the administrative men and women I deal with in the University is very high indeed, and I say that as a man who has been in business for many years." To him, the University is a "rewarding environment in which to work" and the work he finds here is "intellectually stimulating." As a man who is not a joiner of service clubs and the like, being Chairman of the Board of Governors and spending hours of volunteered time for the University is a hobby, a hobby to which he gives much of himself and from which he obviously derives an immense satisfaction.

Mr. Geddes believes that perhaps the most challenging problem the University has to face is change. "Universities have been in a position of fiscal restraint since 1972, the same as everyone else. Are we going to be frozen into the kind of University this was in 1972, or are we going to be able to take steps to recognize the realities of life? We have to have an institution capable of responding positively and courageously to change; we can't always sit in a reactive mode." He referred to the importance of the

Priorities Committee, whose responsibilities he sees as to identify the problems—indeed, to obtain the University's agreement that there *are* problems—and to specify the means available to deal with these problems, not to solve them overnight.

"It will be interesting to see how the University community will respond to these problems," he commented, "because it is going to *have* to respond. It would be a weakness if the University were unable to change or even to see the need to change."

Through his term as Chairman, which ends next June, Mr. Geddes has worked to make the Board a more effective body. He is determined to have Board members who have a sincere commitment to the University rather than people appointed as a kind of community honor. "We have a good, hard-working Board," he said, "and that's important." He has been instrumental in increasing the number of Board committees, so that all Board work is now handled first in the smaller committee setting, and he has been careful to rotate Board members on these committees to give all members a broader experience of the University. "The Board members are spending more time around the University, investigating for themselves and getting all the information in front of them before they act. The University's administration has been encouraging us and working with us to help us be more effective."

"This is a totally cooperative Board with a high level of mutual trust," according to Chairman Geddes, "and we want to give the University the best governance we're able to."

transportation while travelling on University business within the Province of Alberta mileage may be claimed at the following rates:  
17 cents per mile—Claimant only.  
20 cents per mile—Claimant and one or more passengers also travelling on University business.

Authorization by the Comptroller or his delegate is required when use of a private automobile is necessary due to the unavailability of public transportation. Mileage may be claimed at the rate of 20 cents per mile for the first 7,000 miles per annum commencing 1 April each year, and 14 cents for each additional mile.

Where the claimant travels by automobile outside the Province of Alberta the claim is to be prepared on the basis of what it would have cost by rail or air, whichever was the lower, for the most direct route.

Where an automobile is used and mileage is claimed only one person may claim the mileage. Passengers travelling in the automobile may not claim mileage or the cost of equivalent public transportation.

### Singles Group on Campus

Two upcoming activities are open to single people from the campus and the community. A "Get Acquainted" coffee party will be held 7 November, and a seminar led by Don Davies, "Being Somebody—Alone," will be held on 18 and 19 November. The Office of Student Affairs invites inquiries, telephone 432-4145.

### WUSC CARAVAN

The World University Service of Canada will hold its annual exhibition and sale of art and handicrafts from developing areas around the world on 4 and 5 November from 9 a.m. to 10:30 p.m. Receipts from the sales are sent to WUSC-sponsored self-help projects in Third World countries. Items are purchased directly from small producers by the WUSC, and this helps in creating markets for Third World artists and artisans. The sale will take place in 142 Students' Union Building.

### Science Dining Club

The Science Dining Club will meet at 6 p.m. on Thursday, 10 November. Professor

T.L. Powrie of the Department of Economics will speak on "Economists—the last of the Renaissance men." Dinner will follow in the Saskatchewan Room of the Faculty Club. Reservations should be made by 8 November, telephone Mrs. Grant, Faculty of Science, 432-4757.

### General Faculties Council Committee Vacancies

*Selection Committee for a Chairman of the Department of Rural Economy.* The GFC Nominating Committee is seeking nominations for one member of the academic staff to be elected by the GFC to serve on the Selection Committee for Chairman of the Department of Rural Economy.  
*Computer Facilities and Policy Committee.* The GFC Nominating Committee is seeking nominations for one member of the academic staff to be elected by the GFC to serve on the Computer Facilities and Policy Committee. The nominee should be a person from the area of the Social Sciences.

Those who have nominations or who are interested in serving on the above committees

are requested to contact the Secretary of the Nominating Committee, 1-15 University Hall, telephone 432-4715. It would be appreciated if a brief vita could accompany any nomination.

#### **Operatic Scenes**

Scenes from seven operas will be presented by the voice/opera division of the University's Department of Music on Friday, 4 November. at 8:15 p.m. in 1-29 Fine Arts Building. There is no admission charge and the public is welcome to attend.

The scenes to be performed are from *The Merry Wives of Windsor* by Nicolai, *The Marriage of Figaro* by Mozart, *Hansel and Gretel* by Humperdinck, and *The Medium* by Menotti. Scenes from Verdi's *Il Trovatore* and Donizetti's *L'elisir d'amore* and *Don Pasquale* will also be performed. Alan Ord is coordinating the operatic scenes.

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## **THIS WEEK AND NEXT**

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*Because of the closure of University offices on 11 November, all listings must reach the Editor by 9 a.m. on 9 November for publication the following week.*

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### **3 NOVEMBER, THURSDAY**

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#### **German Film**

7:30 p.m. *Die Sachverständigen*. 17 Arts Building. Admission is free.

#### **Cinematheque 16**

7:30 p.m. *The General* (United States, 1926). Directed by Buster Keaton and Clyde Bruckman and starring Buster Keaton and Marian Mack. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Student Cinema**

7 p.m. and 9:30 p.m. *Murder By Death* (United States, 1976). Directed by Robert Moore and starring David Niven and Truman Capote. Students' Union Theatre. Admission is \$1.50 advance and \$2 at the door.

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### **4 NOVEMBER, FRIDAY**

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#### **WUSC Caravan**

9 a.m. to 10:30 p.m. An exhibition and sale of art and handicrafts from developing areas around the world. 142 Students' Union Building. Admission is free.

#### **Faculty Club**

*Downstairs*. Friday special: prime rib of beef, roast potatoes, vegetables, salad bar, apple pie, \$5.50.

*Upstairs*. Lobster, \$12.50. Also regular dinner menu. Reservations required. Entertainment: Lady and the Fox.

#### **Cinematheque 16**

7:30 p.m. *Fellini's Roma* (Italy, 1972). Directed by Federico Fellini and starring Peter Gonzales and Britta Barnes. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **John Janzen Nature Centre**

7:30 p.m. and 9 p.m. "B.C.'s Wells Grey Wilderness Park—ten years ago and today." An informal talk and slide program by Isabell and Earl Hill. John Janzen Nature Centre. Admission is \$1.50 regular and 75 cents for children. Tickets at the door.

#### **Indo-Canadian Society**

8 p.m. The Indo-Canadian Society presents an evening of light classical music of India recited by Chanderkant Kapileshwari. 14-14 Tory Building. Admission is free.

#### **Operatic Scenes**

8:15 p.m. The Department of Music presents scenes from seven operas. 1-29 Fine Arts Building. Admission is free.

#### **Liona Boyd Concert**

8:30 p.m. Liona Boyd, classical guitarist. Students Union Theatre. Admission is \$5.50. Tickets available at the HUB Box Office, Mike's Ticket Office, all Woodward's stores, and at the door.

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### **5 NOVEMBER, SATURDAY**

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#### **WUSC Caravan**

9 a.m. to 10:30 p.m. An exhibition and sale of art and handicrafts from developing areas around the world. 142 Students' Union Building. Admission is free.

#### **Art Fair**

11 a.m. to 4 p.m. A sale of art at the Edmonton Art Gallery.

#### **University Concert Hall**

6:45 p.m. A piano recital by Helmut Brauss. CKUA-AM (580 KHZ) and CKUA-FM (94.9 MHZ).

#### **Faculty Club**

*Downstairs*. Saturday special: beef stroganoff, noodles, salad bar, pumpkin pie, \$5.50. *Upstairs*. Lobster, \$12.50. Also regular dinner menu. Reservations required.

#### **Liona Boyd Concert**

8:30 p.m. Liona Boyd, classical guitarist. Students' Union Theatre. Admission is \$5.50. Tickets available at the HUB Box Office, Mike's Ticket Office, all Woodward's stores, and at the door.

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### **6 NOVEMBER, SUNDAY**

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#### **Cinematheque 16**

2 p.m. *The Story of Vernon and Irene Castle* (United States, 1939). Directed by H.C. Potter and starring Fred Astaire and Ginger Rogers.

Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Espace Tournesol**

2 p.m. "Poetic texts and movement," performed by Vincent Vates. Espace Tournesol, Admission is \$1.50.

#### **Symphonic Wind Ensemble**

3 p.m. The University of Alberta Symphonic Wind Ensemble presents a concert under the direction of Fordyce Pier. Students' Union Theatre. Admission is free.

#### **Student Cinema**

7 p.m. and 9:30 p.m. *Annie Hall* (United States, 1977). Directed by Woody Allen and starring Woody Allen and Diane Keaton. Students' Union Theatre. Admission is \$1.50 advance and \$2 at the door. Tickets available at the HUB Box Office.

#### **National Film Theatre**

7 p.m. *From Here To Eternity* (United States, 1951). Academy Award Winners and Losers Series. Directed by Fred Zinnemann and starring Burt Lancaster and Deborah Kerr. Zeidler Hall, Citadel Theatre. Admission is \$3 regular and \$2 for students and senior citizens. Series tickets available at the HUB Box Office.

#### **Liebeslieder Walzer**

7:30 p.m. Concordia College presents a concert of the music of Bach, Dvorak, Honegger, Purcell, and Brahms. Concordia College, 7128 Ada Boulevard. Admission is free.

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### **7 NOVEMBER, MONDAY**

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#### **Jan Pearce**

8 p.m. The Edmonton Jewish Community Council presents Jan Pearce, tenor. Shoctor Theatre, Citadel Theatre. Admission is \$5 for adults and \$2.50 for students and senior citizens. Tickets available at the Citadel Theatre Box Office and at the door.

#### **Edmonton Film Society**

8 p.m. *Twentieth Century*. Classics Series. Starring John Barrymore and Carole Lombard. TL-11 Tory Building. Series tickets available at the HUB Box Office, Woodward's, and at the door.

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### **8 NOVEMBER, TUESDAY**

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#### **Student Cinema**

7 p.m. *The Sting* (United States, 1973). Directed by George Roy Hill and starring Paul Newman and Robert Redford. *Slaughterhouse Five* (United States, 1972). Directed by George Roy Hill and starring Michael Saks and Ron Leibman. Students' Union Theatre. Admission is \$2 advance and \$2.50 at the door. Tickets available at the HUB Box Office.

**National Film Theatre**

8 p.m. *Julius Caesar* (United States, 1953). Academy Award Winners and Losers Series. Directed by Joseph L. Mankiewicz and starring Marlon Brando and James Mason. Centennial Library Theatre. Admission is \$2 regular and \$1.50 for students and senior citizens. Series tickets available at the HUB Box Office.

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**9 NOVEMBER, WEDNESDAY**

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**Faculty Club**

*Downstairs.* Family night: hamburgers, french fries, carrot sticks, chocolate cake, \$3.75 adults and \$2.50 children. From the grill: steak sandwiches only.

**Edmonton Film Society**

8 p.m. *Life Upside Down.* French Cinema Series. TL-11 Tory Building. Series tickets available at the HUB Box Office, Woodward's, and at the door.

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**10 NOVEMBER, THURSDAY**

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**Humanities Film Series**

7 p.m. *Romeo and Juliet* (Great Britain, 1968). Directed by Franco Zeffirelli and starring Leonard Whiting and Olivia Hussey. TL-11 Tory Building. Admission is 75 cents.

**Cinematheque 16**

7:30 p.m. *Jules and Jim* (France, 1961). Directed by Francois Truffaut and starring Jeanne Moreau and Oskar Werner. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

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**11 NOVEMBER, FRIDAY**

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**Cinematheque 16**

7:30 p.m. *Jules and Jim* (France, 1961). Directed by Francois Truffaut and starring Jeanne Moreau and Oskar Werner. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

**Student Cinema**

12 midnight *The Rocky Horror Picture Show* (Great Britain, 1975). Directed by Jim Sharman and starring Tim Curry and Susan Sarandon. Students' Union Theatre. Admission is \$1.50 advance and at the door. Tickets available at the HUB Box Office.

**Leontyne Price**

8:30 p.m. The Edmonton Opera Guild presents Leontyne Price. Jubilee Auditorium. Ticket information available from Woodward's Box Office.

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**12 NOVEMBER, SATURDAY**

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**Faculty Club**

*Downstairs.* From the grill: steak sandwiches,

hamburgers, french fries, hot beef dips, salad bar.

*Upstairs.* Regular dinner menu. Reservations required.

**University Concert Hall**

6:45 p.m. The University of Alberta Brass Quintet presents a recorded concert. CKUA-AM (580 KHZ) and CKUA-FM (94.9 MHZ).

**Student Cinema**

7 p.m. and 9:30 p.m. *Cousin Cousine* (France, 1975). Directed by Jean-Charles Tacchella and starring Marie Christine Barrault and Victor Lanoun. Students' Union Theatre. Admission is \$1.50 advance and \$2 at the door. Tickets available at the HUB Box Office. 12 midnight *The Rocky Horror Picture Show* (Great Britain, 1975). Directed by Jim Sharman and starring Tim Curry and Susan Sarandon. Students' Union Theatre. Admission is \$1.50 advance and at the door. Tickets available at the HUB Box Office.

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**LECTURES AND SEMINARS**

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*3 November, Thursday***Shastri Institute Lecture**

3 p.m. "Social change in India," with speaker Indra Deva of Ravishankar University, Raipur, India. 5-15 Tory Building.

**Law School Forum**

11 a.m. "The Tar Sands Agreement," with speaker Larry Pratt. 237 Law Centre.

**Ukrainian Studies Seminar**

12:30 p.m. "The Ukrainians and the Manitoba school question: 1916," with speaker Andrij Makuch. 311 Athabasca Hall.

**Biology Seminar**

4 p.m. "Chemical mechanisms in the brain underlying life-sustaining control processes," with speaker Robert D. Myers of Purdue University, Indiana. CW-410 Biological Sciences Centre.

**Technocracy Lecture**

8 p.m. A public lecture by Arvid Petersen of Seattle, authorized speaker for Technocracy Incorporated. Students' Union Building.

*4 November, Friday***Eternal Values and Changing Fashions**

12 noon. "Value of citizenship," with speaker F. Engelmann. Centennial Library.

**Shastri Institute Lecture**

1:15 p.m. "Position of women in India," with speaker Indra Deva of Ravishankar University, Raipur, India. 8-12 General Services Building.

*7 November, Monday***Home Economics Lecture**

1 p.m. "What we know and what we don't

know about sex differences," with speaker Cheryl Malmo. 219 Home Economics Building.

**Plant Science Academic Staff Seminar**

1 p.m. "Continuous and rotational grassing," with speaker P.D. Walton. 490 Agriculture Building.

**Computing Science Colloquium**

4 p.m. "Some glimpses of the history of computation," with speaker K.W. Smillie. 611 General Services Building.

**Technocracy Seminar**

8 p.m. "Technocracy—the design," conducted by Technocracy Incorporated. 92 Avenue Lounge, HUB.

*8 November, Tuesday***Physics Colloquium**

3:30 p.m. "Recent developments in energy storage," with speaker R. Haering of the University of British Columbia. V-120 Physics Building.

*9 November, Wednesday***Botany Seminar**

4:30 p.m. "Pollen-stigma interactions in barley," with speaker D.D. Cass. M-229 Biological Sciences Centre.

*10 November, Thursday***Classics Seminar**

4:30 p.m. "The classical background of the gothic alphabet," with speaker R.J. d'Alquen. 1-8 Humanities Centre.

**Students' Union Forum**

8 p.m. "Remember Canada—a discussion of Canadian unity," with speaker W.O. Mitchell. TLB-1 Tory Building.

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**EXHIBITIONS AND PLAYS**

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**Students' Union Art Gallery**

*From 3 November.* "Roberts, Gallie, Crockett, and Drum," an exhibition of sculpture, prints, and drawings by four young artists working in Canada.

**Athabasca Hall**

*Continuing.* To mark the reopening of Athabasca Hall the University presents a major exhibition of its collections.

**University Art Gallery and Museum**

*Continuing.* "Contemporary Works" and "W.J. Phillips," exhibitions of purchased and donated art works.

**Citadel Theatre**

*To 6 November.* Samuel Becket's *Happy Days*. Directed by Sir Peter Hall and starring Dame Peggy Ashcroft and John Neville. Shoctor Theatre. For ticket information and show times contact the Citadel Theatre Box Office, telephone 425-1820. *Continuing.* Jean Anouilh's *Antigone*. Directed by John Neville. Rice Theatre. For



ticket information and show times contact the Citadel Theatre Box Office, telephone 425-1820.

#### **Provincial Museum**

*Continuing.* "Royal Visits to Alberta," an exhibition documenting royal tours of Alberta.

#### **Northern Light Theatre**

*Continuing.* "The Edmonton Actors' Workshop presents David Mamet's *Sexual Perversity in Chicago*. Directed by Martin Fishman and starring Brian Atkins, Hamish Boyd, Pamela Boyd, and Heather Lee MacCallum. Performances are at noon-hour on the weekdays and Saturday and Sunday evenings at 7:30 p.m. Edmonton Art Gallery Theatre. For ticket information and show times contact the Northern Light Theatre Box Office, telephone 429-3110.

#### **Theatre Francais d'Edmonton**

*Continuing.* Eugene Ionesco's *Les Chaises*. Collège Universitaire St-Jean. For ticket information and show times telephone 469-0829.

#### **Theatre 3**

*From 3 November.* Shelagh Delaney's *A Taste of Honey*. Directed by Howard Dallin. For ticket information and show times contact the Theatre 3 Box Office, telephone 426-6870.

#### **Provincial Museum Theatre**

*10, 11, and 12 November.* "Dylan Thomas Lived Here," a one man show produced by Ray Handy, artistic director of the Welsh theatre company, *Pryderi and His Pigs*. On 11 November, in addition to the regular program, Ray Handy will present a special program based on the poetry of Wilfred Owen.

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## **NON-CREDIT COURSES**

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*The following courses will be conducted by the Computing Services department. All registrations may be made at the General Office, 353 General Services Building.*

#### **MTS AND EDITOR FUNDAMENTALS**

An introduction to the use of the MTS at the University of Alberta using terminals. The course includes practice in the procedures for signing on to the system, information storage, and manipulation. Each class has two two-hour sessions: (a) Tuesday, 1 November from 2 p.m. to 4 p.m. and Thursday, 3 November from 3 p.m. to 5 p.m. (b) Tuesday, 8 November from 2 p.m. to 4 p.m. and Thursday, 10 November from 2 p.m. to 5 p.m. (c) Wednesday, 23 November from 9 a.m. to 11 a.m. and Thursday, 24 November from 3 p.m. to 5 p.m. (d) Wednesday, 30 November from 9 a.m. to

11 a.m. and Thursday, 1 December from 3 p.m. to 5 p.m. The class limit is seventeen registrations. Minimum enrolment has been set at ten registrations. There is no fee.

#### **MTS OVERVIEW**

This course provides basic information about MTS and how it is used. The course will be most valuable for the novice user who has had less than one year's experience using MTS. Classes will be held from 2 p.m. to 4 p.m. on 14, 16, 18, 21, and 23 November. *Fee:* \$10.

*The courses listed below are offered under the auspices of the Faculty of Extension. Registrations may be made and information concerning the instructors and contents of the courses may be acquired at 228 Corbett Hall or by telephoning the number at the end of each listing.*

#### **CRISIS INTERVENTION AND NURSING**

A two-day workshop on Crisis Intervention and Nursing has been scheduled for 3 and 4 November. The workshop has been designed to be of interest to all nurses and other people in similar professions and will deal with crisis intervention theory and its application to a wide variety of situations. There will be case studies, small group discussions, and formal presentations. The small group discussions will relate to several specific areas, such as medical-surgical, critical care, maternity-pediatrics, psychiatric-mental health, life events crises, and body-image change. *Fee:* \$40. *Telephone:* 432-5069.

#### **DUAL CAREERS**

A two-day seminar will be held from 7 p.m. to 10 p.m. on 4 November and from 9 a.m. to 5 p.m. on 5 November for couples who are committed to a dual-career marriage and/or family. The discussions will focus on the various problems faced by such couples in their responsibilities at home to each other and their children, and how they may maintain their relationships outside the home with their families, friends, and colleagues. *Registration limit:* Eight couples. *Fee:* \$40. *Telephone:* 432-5069.

#### **MEDITATION—IS IT FOR YOU?**

The psychology, physiology, and basic types of meditation will be discussed in a one-day seminar, "Meditation—is it for you?", to be held on Saturday, 12 November. The seminar will provide an introduction to the scientific and experiential aspects of meditation to help those people with little or no knowledge of meditation to decide whether or not they wish to use it in their lives. *Fee:* \$15. *Telephone:* 432-5069.

#### **INTERPERSONAL COMMUNICATION SKILLS FOR HEAD NURSES**

A two-day seminar will be held on 14 and 15 November for head nurses who wish to

improve their communications skills in such matters as interviewing candidates for positions, fact finding, problem solving, and disciplinary problems. *Fee:* \$35.

*Telephone:* 432-5069.

#### **COACHING THEORY**

A Level I course in Coaching Theory will begin on 15 November, from 7 p.m. to 9 p.m. The course will be conducted by members of the University's Department of Physical Education and by staff of Alberta Recreation, Parks, and Wildlife. Topics to be covered in the course include the role of the coach, sport psychology, motor learning, sports medicine, biomechanics, growth and development, exercise physiology, and training methods. *Fee:* \$5. *Telephone:* 432-3033, 432-5055.

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## **SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS**

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#### **Canadian International Development Agency Scholarship Programs for Canadians**

*Donor:* Canadian International Development Agency. *Where tenable:* Academic part of program is tenable in Canada and/or in a developing country. *Level of study:* Graduate (PhD candidates are not eligible). *Field of study:* International development. *Value:* \$11,500 including living allowance, tuition, research costs, and travel. *Number:* Twenty. *Duration:* Two years, subject to review at end of first year. *Conditions:* Applicants must furnish proof of Canadian citizenship. Preference will be given to candidates who have demonstrated commitment to international development by working in development programs. Each candidate must be sponsored by a supervisor of studies who will endorse the research proposal accompanying the application and who will submit to CIDA periodic evaluations of successful candidate's progress. *Closing date:* 31 January 1978. *Further information and application forms should be requested from:* CIDA Office, 225 Athabasca Hall.

#### **National Research Council of Canada Research Associateships 1978**

*Donor:* National Research Council of Canada. *Where tenable:* NRC laboratories. *Level of study:* Research. *Field of study:* Science and engineering. *Value:* Research Associates will be offered appointments to the staff on a term basis with salary and staff benefits. *Number:* About fifty. *Duration:* One year, with possibility of renewal. *Conditions:* Applicants should possess a PhD in the natural sciences or a Master's degree in an engineering field or expect to obtain the degree prior to taking up the Award. While preference will be given to Canadians, the Associateships are open to nationals of other countries. *Closing date:* 15 January 1978. *Further information and application forms are available from:* The Student Awards Office, 252 Athabasca Hall.

#### **Canada-People's Republic of China Exchange Scholarships 1978-79**

*Donor:* Association of Universities and Colleges of Canada. *Where tenable:* Peking Language Institute. *Level of study:* Post-graduate. *Field of study:* Language, literature, history, political philosophy, and medicine acceptable to the Chinese authorities. *Value:* Economy air fare, tuition fees, accommodation, medical services, (internal travel, a subsistence allowance, and a supplemental allowance of \$100 per

month. *Number:* Possibly eleven. *Duration:* One year. *Conditions:* Canadian citizens. Preference will be given to candidates who are not more than thirty-five years of age. *Closing date:* 30 November. *Further information and application forms should be requested from:* The Director, International Programs, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario, K1P 5N1.

#### Dalhousie University

##### Killam Memorial Scholarship 1978-79

*Donor:* Izaak Walton Killam Fund for Advanced Study. *Where tenable:* Dalhousie University. *Level of study:* Master's or PhD program. *Field of study:* Natural sciences, social sciences, humanities. *Value:* \$6,300 plus travel assistance to Dalhousie. *Number:* Variable. *Duration:* One academic year with possible renewals. *Conditions:* Applicants must possess first-class honours degree in chosen field. *Closing date:* Not stated. *Further information and application forms should be requested from:* The Registrar, Dalhousie University, Halifax, Nova Scotia.

## POSITIONS VACANT

### ACADEMIC POSITION

#### Administrative Officer

##### Secretariat, President's Office

Written applications are invited from qualified men and women for the position of Administrative Officer in the Secretariat. Duties are varied, but include the preparation of minutes for General Faculties Council and its Executive Committee. An excellent command of written English and a university degree are essential. Some knowledge of University organization is desirable, but not essential.

*Salary range:* \$14,580 to \$19,683. Applications will be received until 10 November and duties will begin on 1 January 1978. *Apply to:* Ms. M.M. McCaughan, Office of the President, 3-3 University Hall. Telephone 432-4957.

### NON-ACADEMIC POSITIONS

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 28 October.*

Library Clerk I (\$322-\$360, half-time)—Faculty of Extension Library  
Clerk Steno II (\$644-\$779)—Faculty of Business Administration and Commerce  
Clerk Typist III (\$696-\$843)—Educational Administration  
Senior Clerk (\$696-\$843)—Immunology; Administrative Services  
Clerk Steno III (\$360-\$438, half-time)—Pathology  
Clerk Steno III (\$721-\$877)—Collège St-Jean; Physiology; Educational Psychology; Chemistry; Geology  
Data Entry Operator I (\$721-\$877)—Computing Services; Bookstore  
Student Records Processing Clerk (\$751-\$914)—Faculty of Education, Student Records Office  
Medical Steno (\$779-\$952)—Surgery  
Secretary (\$811-\$994)—Entomology; Faculty of Business Administration and Commerce  
Office Services Supervisor (\$994-\$1,224)—Office of the Comptroller  
Administrative Clerk (\$843-\$1,034)—Administrative Services  
Typographical Trainee (\$644-\$751)—Duplicating  
Computer Assistant I (\$644-\$779)—Computing Services (two positions)

Internal Audit Technician (\$843-\$1,034)—Office of the Comptroller  
Research and Planning Analyst II (\$843-\$1,034, term)—Institutional Research and Planning  
Dental Technician I (\$877-\$1,078)—Faculty of Dentistry  
Electronics Technician I/II (\$877-\$1,224)—Electrical Engineering (two positions)  
Electronics Technician I/III (\$877-\$1,393, trust)—Physics  
Technician II (\$952-\$1,173)—Pathology  
Instrument Technician II/III (\$994-\$1,393)—Pharmacy  
Dental Hygienist (\$1,034-\$1,278, term)—University Health Service  
Biochemistry Technologist II (\$1,078-\$1,335, trust)—Cancer Research Unit  
Dental Equipment Repair Technician (\$1,078-\$1,335)—Faculty of Dentistry  
Machinist Technician II (\$1,078-\$1,335)—Technical Services  
Graphics Technician III (\$1,078-\$1,335)—Technical Services, Graphics Division  
Television Producer II (\$1,224-\$1,520)—Radio and Television  
Programmer Analyst III/IV (\$1,335-\$1,985)—Office of Administrative Systems

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.*

Library Clerk III (\$696-\$843)—Cataloguing  
Bookkeeper II (\$721-\$877)—Administration  
Library Assistant I (\$751-\$914)—Cataloguing (two positions)

## PERSONAL NOTICES

*Because of the closure of University offices on 11 November, all advertisements must be received by 9 a.m. on 10 November for publication the following week. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. We regret that no ads can be taken over the telephone. Folio reserves the right to accept or reject ads. For order forms or further information, telephone 432-4991.*

### Accommodations available

For rent—beautiful four-bedroom contemporary home. Telephone 458-2535 after six o'clock.  
Luxury two-bedroom condominium in Kihei, Maui; available from 1 April; \$35 per night for four. 478-6077; 475-7762  
For rent—two-bedroom furnished condominium; appliances, carport, usable basement. Available December and January. Write with return address: Box 184, University Post Office.  
For sale—Pigeon Lake: three beautiful properties: one lake-front cabin and two winterized residences; all services, near lake access. Telephone Reina Proudfoot, 435-4869; 436-2556. Royal Trust.  
For sale—by owner. New three-bedroom bungalow, 134 baths. Ermineskin (southwest Edmonton). Fireplace, landscaped, fenced. \$81,500. Telephone 434-3138. Principals only.  
For sale—three houses: custom-built five-bedroom Tudor home, family room, wonderful kitchen, double garage; gracious older Glenora house, three

bedrooms, living room fireplace, separate dining room, new kitchen, two bathrooms; Mill Creek ravine two-storey home, fireplace in living room, new furnace, double garage; revenue possibilities.

R. Richter, 488-6930; 455-4135. Weber Bros. Realty.

For mature tidy couple—central two-bedroom house, full basement, beautiful backyard, location. No pets. 469-9014, 9622 95 Avenue.

Londonderry—professional woman has townhouse to share with same. \$225 (utilities included). 475-2556.

For rent—January 1978 - August. Furnished four-bedroom house, three baths, rumpus room; beautiful acreage near Sherwood Park—half hour to University. No pets. References. Telephone 432-4473 daytime.

For rent—four-bedroom house; Malmo, furnished; all schools within ten-minute walk; near Southgate, regular bus to University. Available 1 January 1978 to August, September 1978. Two cats in residence. Rent \$500 monthly. Telephone 434-5603 evenings.

For sale—Brander Gardens (by owner): 1,400-square-foot bungalow, two fireplaces, sundeck, electric door opener, and many features for comfortable living. Telephone 435-6270.

Must sell, leaving country—West end, three-bedroom condominium, two car spaces. \$52,000. Down payment, \$5,000. 487-8806.

For rent—4731 132 Avenue; 1,324-square-foot three-bedroom bungalow; double attached garage, fireplace in living room, three-piece bath in master bedroom. Many extras. Possession 1 December. Telephone 475-8249 after six.

For rent—in Aspen Gardens (very convenient for University); 1 December 1977 to 31 July 1978, or by arrangement. Spacious bungalow on large ravine lot; four bedrooms, 2½ baths, recreation room plus study, walk-out patio, and two-car garage. Fully furnished. Rent is only \$500 monthly. Telephone 434-8859 evenings.

For sale—by owner: Viewpoint, 7718 Jasper Avenue, two-bedroom bungalow. \$77,000. Telephone 424-3529.

For sale—Make an offer. Eighty acres with fully modern two-bedroom home, including recreation room and natural gas. Located within thirty miles of University, just off highway 14. Telephone 662-2742.

For sale—South Petrolia Perry "Presidential" four-bedroom two-storey located on secluded cul-de-sac with easy access to schools, bus, and University. Features large country-style kitchen with four major appliances, old brick fireplace in adjacent family room, and upgraded carpet throughout. Listed price, \$112,500. Jeanne Eid 434-5780, residence or 436-5250, business. Spencer Real Estate Ltd.

Sacrifice sale—outstanding one acre river frontage property only 3½ miles from City limits in prime southwest location. Excellent access to University and all amenities. Priced well below similar acreages at \$76,500. Telephone Jeanne Eid 434-5780, residence or 436-5250, business. Spencer Real Estate Ltd.

For sale—new ground-floor executive condominium in Riverbend's Country Gardens. Features extra large master bedroom suite, two four-piece baths, study off spacious living room, sliding glass doors to covered patio and beautiful courtyard. Amenities include swimming pool, saunas, and underground parking. Telephone Jean Eid 434-5780, residence or 436-5250, business. Spencer Real Estate Ltd.

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1971 Buick LeSabre two-door hardtop, power steering, power brakes, tilt wheel, airconditioned. Good condition. \$1,550. 434-9189.

1965 Valiant stationwagon. New tires, brakes, alternator. Safe cheap transportation. \$290. 432-3728 or 434-6848.

1974 Vega wagon; automatic, excellent condition.  
\$1,600. 455-4613.

1976 Chev Bel Air; 7,000 miles; many extras.  
\$4450 or reasonable offer. 489-8927.

#### Goods and services

Plumbing—for estimates on basement bathrooms,  
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Babies—three- to nine-months-old volunteers needed  
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Expert typing of theses. Telephone 455-0641.

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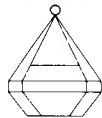
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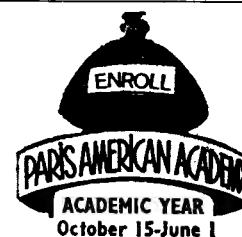
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